CONTENTS FOR VOLUME 62

NUMBER 1—JANUARY

ASSESSING POTENTIAL GRAY WOLF RESTORATION IN THE NORTHEASTERN UNITED STATES: A SPATIAL PREDICTION OF FAVORABLE HABITAT AND POTENTIAL POPULATION LEVELS—*Invited Paper* . . . . . David J. Mladenoff and Theodore A. Sickley 1

BLACK WOODPECKER USE OF HABITATS AND FEEDING SUBSTRATES IN A MANAGED SCANDINAVIAN FOREST . . . Jørund Rolstad, Przemyslaw Majewski, and Erlend Rolstad 11

PREDICTING EARLY MORTALITY OF NEWBORN GUANACOS BY BIRTH MASS AND HEMATOLOGICAL PARAMETERS: A PROVISIONAL MODEL . . . . . Laura L. Gustafson, William L. Franklin, Ronald J. Sarno, Russel L. Hunter, Karen M. Young, Warren E. Johnson, and Michael S. Behl 24

SURVIVAL OF RING-NECKED PHEASANT CHICKS DURING BROOD REARING . . . . . Terry Z. Riley, William R. Clark, Dean E. Ewing, and Paul A. Vohs 36

BEHAVIORAL RESPONSES OF TWO PREDATOR SPECIES TO SUDDEN DECLINES IN PRIMARY PREY . . . . . Grant L. Norbury, Dale C. Norbury, and Richard P. Heyward 45

THE COMMERCIAL HARVEST OF WILDLIFE IN DORNOD AIMAG, MONGOLIA . . . . . Richard P. Reading, Henry Mix, Badamjavin Lhagvasuren, and Natsagdorjin Tseveenmyadag 59

EFFECT OF STAND WIDTH AND ADJACENT HABITAT ON BREEDING BIRD COMMUNITIES IN BOTTOMLAND HARDWOODS . . . . . John C. Kilgo, Robert A. Sargent, Brian R. Chapman, and Karl V. Miller 72

HABITAT MANAGEMENT FOR THE EASTERN MASSASAUGA IN A CENTRAL NEW YORK PEATLAND . . . . . Glenn Johnson and Donald J. Leopold 84

WINTER BEHAVIOR OF DESERT TORTOISES IN SOUTHCENTRAL NEVADA . . . . . Kurt R. Rautenstrauch, Audrey L. H. Rager, and Danny L. Rakestraw 98

BROWN TREE SNAKE RESPONSE TO VISUAL AND OLFACTORY CUES . . . John A. Shivik 105

BREEDING BIOLOGY OF WOOD DUCKS USING NATURAL CAVITIES IN SOUTHERN ILLINOIS . . . . . Daniel C. Ryan, Robert J. Kawula, and Robert J. Gates 112

MALLARD DUCKLING GROWTH AND SURVIVAL IN RELATION TO AQUATIC INVERTEBRATES . . . . . Robert R. Cox, Jr., Mark A. Hanson, Christianne C. Roy, Ned H. Euliss, Jr., Douglas H. Johnson, and Malcolm G. Butler 124

OUTCOME OF AGGRESSIVE INTERACTIONS BETWEEN AMERICAN BLACK DUCKS AND MALLARDS DURING THE BREEDING SEASON . . . . . Daniel G. McAuley, David A. Clugston, and Jerry R. Longcore 134

BROOD SIZES OF SYMPATRIC AMERICAN BLACK DUCKS AND MALLARDS IN MAINE . . . . . Jerry R. Longcore, David A. Clugston, and Daniel G. McAuley 142

RESPONSE OF NESTING DUCKS TO PREDATOR EXCLOSURES AND WATER CONDITIONS DURING DROUGHT . . . . . Lewis M. Cowardin, Pamela J. Pietz, John T. Lokemoen, H. Thomas Sklebar, and Glen A. Sargeant 152

VALIDITY OF USING ARTIFICIAL NESTS TO ASSESS DUCK-NEST SUCCESS . . . . . Michael A. Butler and Jay J. Rotella 163

HABITAT USE AND HOME RANGE OF WEST INDIAN WHISTLING-DUCKS . . . . . Nancy L. Staus 171

PRODUCTIVITY AND POPULATION INCREASE OF SUBARCTIC BREEDING CANVASBACKS . . . . . Michael A. Fournier and James E. Hines 179

USE OF RATIO ESTIMATORS TO ESTIMATE THE SIZE OF COMMON EIDER POPULATIONS IN WINTER . . . . . Daniel Bordage, Nathalie Plante, André Bourget, and Sylvain Paradis 185

RETURN RATES AND REPRODUCTIVE OUTPUT OF CAPTIVE-REARED FEMALE MALLARDS . . . . . Tina Yerkes and Cynthia Bluhm 192

SPATIAL ORGANIZATION OF A PRAIRIE STRIPED SKUNK POPULATION DURING THE WATERFOWL NESTING SEASON . . . . . Serge Larivière and François Messier 199

MIGRATION AND SEASONAL RANGE DYNAMICS OF DEER USING ADJACENT DEER-YARDS IN NORTHERN MICHIGAN . . . . . Timothy R. Van Deelen, Henry Campa, III, Maya Hamady, and Jonathan B. Haufler 205

EFFECT OF DENSITY REDUCTION ON OVERWINTER SURVIVAL OF FREE-RANGING MULE DEER FAWNS . . . . . Gary C. White and Richard M. Bartmann 214

MOOSE DISPERSAL AND ITS ROLE IN THE MAINTENANCE OF HARVESTED POPULATIONS . . . .Johanne Labonté, Jean-Pierre Ouellet, Réhaume Courtois, and Francis Bélisle 225

DIETARY OVERLAP BETWEEN NATIVE SITKA BLACK-TAILED DEER AND INTRODUCED ELK IN SOUTHEAST ALASKA . . . . . .Matthew D. Kirchhoff and Douglas N. Larsen 236

BEHAVIORAL RESPONSE OF FREE-RANGING ELK TREATED WITH AN IMMUNOCONTRACEPTIVE VACCINE . . . . . Theodore J. Heilmann, Robert A. Garrott, Larry L. Cadwell, and Brett L. Tiller 243

LITTERFALL: AN OVERLOOKED FOOD SOURCE FOR WINTERING WHITE-TAILED DEER . . . . . Stephen S. Ditchkoff and Frederick A. Servello 250

GRIZZLY BEARS AND CALVING CARIBOU: WHAT IS THE RELATION WITH RIVER CORRIDORS? . . . . . Donald D Young, Jr., and Thomas R. McCabe 255

VARIANCE COMPONENT ANALYSIS AND HERITABILITY OF ANTLER TRAITS IN WHITE-TAILED DEER . . . . . .Steven D. Lukefahr and Harry A. Jacobson 262

EFFECT OF UNDERCOUNTING AND MODEL SELECTION ON A SIGHTABILITY-ADJUSTMENT ESTIMATOR FOR ELK . . . . . Rawland D. Cogan and Duane R. Diefenbach 269

EFFECTS OF AGRICULTURAL ACTIVITIES AND HUNTING ON HOME RANGES OF FEMALE WHITE-TAILED DEER . . . . . .Kurt C. Vercauteren and Scott E. Hygnstrom 280

FINLESS PORPOISE ABUNDANCE IN OMURA BAY, JAPAN: ESTIMATION FROM AERIAL SIGHTING SURVEYS . . . . . Hideyoshi Yoshida, Kunio Shirakihara, Hirohisa Kishino, Miki Shirakihara, and Akira Takemura 286

SEASONAL CHANGES IN WATER FLUX, FORAGE INTAKE, AND ASSIMILATED ENERGY OF FREE-RANGING MUSKRATS . . . . . Kevin L. Campbell, Gillian L. Weseen, and Robert A. MacArthur 292

EFFECT OF WINTER TEMPERATURE ON WILD TURKEY METABOLISM . . . . . Kurt J. Haroldson, Michael L. Svihel, Richard O. Kimmel, and Michael R. Riggs 299

SURVIVAL AND CAUSE-SPECIFIC MORTALITY OF WILD TURKEY HENS IN CENTRAL MISSISSIPPI . . . . . .Darren A. Miller, Loren W. Burger, Bruce D. Leopold, and George A. Hurst 306

PREDICTING GREATER PRAIRIE-CHICKEN NEST SUCCESS FROM VEGETATION AND LANDSCAPE CHARACTERISTICS . . . Gwen McKee, Mark R. Ryan, and Larry M. Mechlin 314

MANAGEMENT OF BALD EAGLE COMMUNAL ROOSTS IN FIRE-ADAPTED MIXED-CONIFER FORESTS . . . . Dominick A. DellaSala, Robert G. Anthony, Thomas A. Spies, and Kathleen A. Engel 322

POSTFLEDGING NEST DEPENDENCE PERIOD FOR BALD EAGLES IN FLORIDA . . . . . Petra Bohall Wood, Michael W. Collopy, and Carolyn M. Sekerak 333

ANTHROPOGENIC EFFECTS ON WINTER BEHAVIOR OF FERRUGINOUS HAWKS . . . . . David L. Plumpton and David E. Andersen 340

ENHANCING BACHMAN'S SPARROW HABITAT VIA MANAGEMENT OF RED-COCKADED WOODPECKERS . . . . . .Sheldon Plentovich, James W. Tucker, Jr., Nicholas R. Holler, and Geoffrey E. Hill 347

NICHE OVERLAP IN SYMPATRIC POPULATIONS OF FOX AND GRAY SQUIRRELS . . . . . John W. Edwards, David G. Heckel, and David C. Guynn, Jr. 354

EFFECTS OF RECREATIONAL SHOOTING ON PRAIRIE DOG COLONIES . . . . . Timothy C. Vosburgh and Lynn R. Irby 363

PATTERNS OF DEN USE BY SAN JOAQUIN KIT FOXES . . . . . .Marni E. Koopman, Jerry H. Scrivner, and Thomas T. Kato 373

ANALYSIS OF STABLE ISOTOPE DATA: A K NEAREST-NEIGHBORS RANDOMIZATION TEST . . . . . .Michael N. Rosing, Merav Ben-David, and Ronald P. Barry 380

POTENTIAL RISK TO RING-NECKED PHEASANTS FROM APPLICATION OF TOXIC BAIT FOR BLACKBIRD CONTROL IN SOUTH DAKOTA . . . . . Michael L. Avery, Mary Jo Kenyon, George M. Linz, David L. Bergman David G. Decker, and John S. Humphrey 388

EFFECTIVENESS OF SEVERAL OILS TO REDUCE HATCHABILITY OF CHICKEN EGGS . . . . . Patricia A. Pochop, John L. Cummings, John E. Steuber, and Christi A. Yoder 395

EFFECTIVENESS OF VOLATILE IRRITANTS AT REDUCING CONSUMPTION OF EGGS BY CAPTIVE COYOTES . . . . . Suzanne E. Hoover and Michael R. Conover 399

PREDICTING BODY CONDITION OF BEARS VIA TWO FIELD METHODS . . . . . Grant V. Hilderbrand, Sean D. Farley, and Charles T. Robbins 406

CHLORINATED BENZENES AS PHYSIOLOGICAL MARKERS FOR COYOTES . . . . . John J. Johnston, Lamar A. Windberg, Carol A. Furcolow, Richard M. Engeman, and Marianna Roetto 410

Book Reviews 422

Journal News 434

Supplement—MANUSCRIPT GUIDELINES FOR THE *JOURNAL OF WILDLIFE MANAGEMENT* . . . . . John T. Ratti and Loren M. Smith

NUMBER 2—APRIL

LONG-TERM COUNTS OF MIGRATING RAPTORS: A ROLE FOR VOLUNTEERS IN WILDLIFE RESEARCH—*Invited Paper* . . . . . Keith L. Bildstein 435

A PRODUCTIVITY INDEX FOR MARBLED MURRELETS IN ALASKA BASED ON SURVEYS AT SEA . . . . . Katherine J. Kuletz and Steven J. Kendall 446

BREEDING BIRD COMMUNITY COMPOSITION IN RELATION TO RIPARIAN VEGETATION STRUCTURE IN THE WESTERN UNITED STATES . . . . . Todd A. Sanders and W. Daniel Edge 461

SONGBIRD COMMUNITY COMPOSITION AND NESTING SUCCESS IN GRAZED AND UNGRAZED PINYON–JUNIPER WOODLANDS . . . . . Christopher B. Goguen and Nancy E. Mathews 474

EFFECT OF FIREWOOD HARVESTING ON BIRDS IN A CALIFORNIA OAK–PINE WOODLAND . . . . . Paul A. Aigner, William M. Block, and Michael L. Morrison 485

RADIOCESIUM IN MOURNING DOVES: EFFECTS OF A CONTAMINATED RESERVOIR DRAWDOWN AND RISK TO HUMAN CONSUMERS . . . . . Robert A. Kennamer, I. Lehr Brisbin, Jr., Clark D. McCreedy, and Joanna Burger 497

DIET OF THE RED-COCKADED WOODPECKER IN THE APALACHICOLA NATIONAL FOREST . . . . . Charles A. Hess and Frances C. James 509

VARIABLE REPRODUCTIVE SUCCESS OF BALD EAGLES ON THE BRITISH COLUMBIA COAST . . . . . John E. Elliott, Ian E. Moul, and Kimberly M. Cheng 518

DEPREDATION RATES AND PREDATORS AT ARTIFICIAL BIRD NESTS IN AN UNFRAGMENTED NORTHERN HARDWOODS FOREST . . . . . Stephen S. Sloan, Richard T. Holmes, and Thomas W. Sherry 529

THE EFFECT OF MULTIPLE-BROODING ON AGE RATIOS OF QUAIL . . . . . Fred S. Guthery and William P. Kuvlesky, Jr. 540

SCALED QUAIL USE OF DIFFERENT SERAL STAGES IN THE CHIHUAHUAN DESERT . . . . . Lewis Saiwana, Jerry L. Holechek, Ackim Tembo, Raul Valdez, and Manuel Cardenas 550

EFFECTS OF SPRING FEEDING ON BODY CONDITION OF CAPTIVE-REARED RING-NECKED PHEASANTS IN GREAT BRITAIN . . . . . Roger A. H. Draycott, Andrew N. Hoodless, Mark N. Ludiman, and Peter A. Robertson 557

SHOT PREVALENCES AND DIETS OF DIVING DUCKS FIVE YEARS AFTER BAN ON USE OF LEAD SHOTSHELLS AT CATAHOULA LAKE, LOUISIANA . . . . . Joseph L. Moore, William L. Hohman, Timothy M. Stark, and Gary A. Weisbrich 564

DABBLING DUCK–HABITAT ASSOCIATIONS DURING WINTER IN COASTAL SOUTH CAROLINA . . . . . David H. Gordon, Brian T. Gray, and Richard M. Kaminski 569

LABORATORY EVALUATION OF A METHYL ANTHRANILATE BEAD FORMULATION ON MALLARD FEEDING BEHAVIOR . . . . . John L. Cummings, Larry Clark, Patricia A. Pochop, and James E. Davis, Jr. 581

AMPHIBIAN MOVEMENTS IN RESPONSE TO FOREST EDGES, ROADS, AND STREAMBEDS IN SOUTHERN NEW ENGLAND . . . . . James P. Gibbs 584

IMPORTANCE OF OBSERVER EXPERIENCE IN FINDING DESERT TORTOISES . . . . . Jerome E. Freilich and Edward L. LaRue, Jr. 590

SELECTION OF DAY ROOSTS BY FEMALE LONG-LEGGED MYOTIS IN THE CENTRAL OREGON CASCADE RANGE . . . . . Patricia C. Ormsbee and William C. McComb 596

SECONDARY USE OF ASPEN CAVITIES BY TREE-ROOSTING BIG BROWN BATS . . . . . Matina C. Kalcounis and R. Mark Brigham 603

CHARACTERISTICS OF PONDEROSA PINE SNAG ROOSTS USED BY REPRODUCTIVE BATS IN NORTHERN ARIZONA . . . . . Michael J. Rabe, Thomas E. Morrell, Heather Green, James C. deVos, Jr., and C. Richard Miller 612

RABIES CONTROL: AN ADAPTIVE MANAGEMENT APPROACH . . . . . Claudia A. Schubert, Richard C. Rosatte, Charles D. MacInnes, and Thomas D. Nudds 622

RELATIONS OF SMALL MAMMAL POPULATIONS TO EVEN-AGED SHELTERWOOD SYSTEMS IN SUB-BOREAL SPRUCE FOREST . . . . . Charlotte Von Trebra, Denis P. Lavender, and Thomas P. Sullivan 630

THE EFFECT OF REARING METHODS ON SURVIVAL OF REINTRODUCED BLACK-FOOTED FERRETS . . . . . Dean E. Biggins, Jerry L. Godbey, Louis R. Hanebury, Bob Luce, Paul E. Marinari, Marc R. Matchett, and Astrid Vargas 643

KETAMINE–MEDETOMIDINE OR ISOFLURANE IMMOBILIZATION OF BLACK-FOOTED FERRETS . . . . . Terry J. Kreeger, Astrid Vargas, Glenn E. Plumb, and E. Tom Thorne 654

CHARACTERISTICS OF AMERICAN MARTEN DEN SITES IN WYOMING . . . . . Leonard F. Ruggiero, Dean E. Pearson, and Stephen E. Henry 663

EVALUATION OF AGE DETERMINATION TECHNIQUES FOR GRAY WOLVES . . . . . David B. Landon, Carol A. Waite, Rolf O. Peterson, and L. David Mech 674

TESTING FOR WOLF–COYOTE HYBRIDIZATION IN THE ROCKY MOUNTAINS USING MITOCHONDRIAL DNA . . . . . Kristine L. Pilgrim, Diane K. Boyd, and Stephen H. Forbes 683

EFFECT OF COYOTE REMOVAL ON SHEEP DEPREDATION IN NORTHERN CALIFORNIA . . . . . Mary M. Conner, Michael M. Jaeger, Theodore J. Weller, and Dale R. McCullough 690

A COMPARISON OF BOBCAT AND COYOTE PREDATION ON LAMBS IN NORTH-COASTAL CALIFORNIA . . . . . Jennifer C. C. Neale, Benjamin N. Sacks, Michael M. Jaeger, and Dale R. McCullough 700

FACTORS AFFECTING THE SPATIAL DISTRIBUTION OF SAN JOAQUIN KIT FOXES . . . . . Gregory D. Warrick and Brian L. Cypher 707

MOVEMENTS OF FEMALE BLACK BEARS IN RELATION TO LANDSCAPE VEGETATION TYPE IN SOUTHERN QUÉBEC . . . . . Claude Samson and Jean Huot 718

THE INFLUENCE OF A SMALL SANCTUARY ON SURVIVAL RATES OF BLACK BEARS IN NORTH CAROLINA . . . . . Jeff Beringer, Steven G. Seibert, Steve Reagan, Allan J. Brody, Michael R. Pelton, and Larry D. Vangilder 727

DYNAMICS AND RANGE EXPANSION OF A REESTABLISHED MUSKOX POPULATION . . . . . Patricia E. Reynolds 734

LIFE-HISTORY EFFECTS OF CHEMICAL IMMOBILIZATION AND RADIOCOLLARS ON MOUNTAIN GOATS . . . . . Steeve D. Côté, Marco Festa-Bianchet, and François Fournier 745

RESPONSES OF CARIBOU TO OVERFLIGHTS BY LOW-ALTITUDE JET AIRCRAFT . . . . . Julie A. K. Maier, Stephen M. Murphy, Robert G. White, and Michael D. Smith 752

ECOLOGICAL COSTS OF FERAL PREDATOR CONTROL: FOXES AND RABBITS . . . . . Peter B. Banks, Christopher R. Dickman, and Alan E. Newsome 766

SURVIVAL RATES IN A NONHARVESTED BROWN HARE POPULATION . . . . . Eric Marboutin and Kurt Hansen 772

ESTIMATING SURVIVAL RATES WITH AGE-STRUCTURE DATA . . . . . Mark S. Udevitz and Brenda E. Ballachey 779

EVALUATION OF RESOURCE SELECTION METHODS WITH DIFFERENT DEFINITIONS OF AVAILABILITY . . . . . Seth A. McClean, Mark A. Rumble, Rudy M. King, and William L. Baker 793

LIMITS OF RETROSPECTIVE POWER ANALYSIS . . . . . Patrick D. Gerard, David R. Smith, and Govinda Weerakkody 801

CORRIGENDUM 808

Book Reviews 811

Journal News . . . . . bmi

NUMBER 3—JULY

ON THE USE OF DEMOGRAPHIC MODELS OF POPULATION VIABILITY IN ENDANGERED SPECIES MANAGEMENT—*Invited Paper* . . . . . Steven R. Beissinger and M. Ian Westphal 821

HABITAT USE BY WESTERN POND TURTLES IN THE TRINITY RIVER, CALIFORNIA . . . . . Devin A. Reese and Hartwell H. Welsh, Jr. 842

PARASITISM OF GREATER PRAIRIE-CHICKEN NESTS BY RING-NECKED PHEASANTS . . . . . Ronald L. Westemeier, John E. Buhnerkempe, William R. Edwards, Jeffrey D. Brawn, and Scott A. Simpson 854

NEST-SITE SELECTION BY COOPER'S HAWKS IN AN URBAN ENVIRONMENT . . . . . Clint W. Boal and R. William Mannan 864

CINNAMAMIDE MODIFIES FORAGING BEHAVIORS OF FREE-LIVING BIRDS . . . . . Elaine L. Gill, Chris J. Feare, David P. Cowan, Susan M. Fox, Julie D. Bishop, Steve D. Langton, Richard W. Watkins, and Joanne E. Gurney 872

HABITAT SELECTION MODELING FOR NORTHERN BOBWHITES ON SUBTROPICAL RANGELAND . . . Steven D. Kopp, Fred S. Guthery, N. David Forrester, and Will E. Cohen 884

ASSESSING THE SUITABILITY OF LANDSCAPES FOR NORTHERN BOBWHITE . . . . . John L. Roseberry and Scott D. Sudkamp 895

REPRODUCTIVE CHARACTERISTICS OF A WILD TURKEY POPULATION IN CENTRAL MISSISSIPPI . . . . . Darren A. Miller, Bruce D. Leopold, and George A. Hurst 903

REPRODUCTIVE ECOLOGY OF EASTERN WILD TURKEYS IN SOUTHWESTERN WISCONSIN . . . . . R. Neal Paisley, Robert G. Wright, John F. Kubisiak, and Robert E. Rolley 911

WILD TURKEY POPULATION DYNAMICS IN SOUTHWESTERN WISCONSIN . . . . . Robert E. Rolley, John F. Kubisiak, R. Neal Paisley, and Robert G. Wright 917

VALIDATING THE USE OF ARTIFICIAL NESTS IN PREDATION EXPERIMENTS . . . . . Catherine P. Ortega, Joseph C. Ortega, Cristin A. Rapp, and Stacia A. Backensto 925

SURVIVAL AND REPRODUCTION OF FEMALE SICHUAN, RING-NECKED, AND F, HYBRID PHEASANTS . . . . . John A. Niewoonder, Harold H. Prince, and David R. Luukkonen 933

THE USE OF FIELDS AT NIGHT BY WINTERING AMERICAN WOODCOCK . . . . . James B. Berdeen and David G. Krementz 939

DETECTABILITY ANALYSIS IN TRANSECT SURVEYS . . . . . Sallie C. Beavers and Fred L. Ramsey 948

MITIGATING SPATIAL DIFFERENCES IN OBSERVATION RATE OF AUTOMATED TELEMETRY SYSTEMS . . . . . Bruce K. Johnson, Alan A. Ager, Scott L. Findholt, Michael J. Wisdom, David B. Marx, John W. Kern, and Larry D. Bryant 958

A POPULATION ESTIMATOR BASED ON NETWORK SAMPLING OF TRACKS IN THE SNOW . . . . . Earl F. Becker, Michael A. Spindler, and Timothy O. Osborne 968

EPIDEMIOLOGY OF FELINE LEUKEMIA VIRUS (FeLV) AND STRUCTURE OF DOMESTIC CAT POPULATIONS . . . . . Emmanuelle Fromont, Marc Artois, and Dominique Pontier 978

MODELING HABITAT SUITABILITY FOR SMALL MAMMALS IN CHIHUAHUAN DESERT FOOTHILLS OF NEW MEXICO . . . . . Eric E. Jorgensen, Stephen Demarais, Scott M. Sell, and Scott P. Lerich 989

SHORT-TERM EFFECTS OF SMALL-SCALE HABITAT DISTURBANCE ON ACTIVITY BY INSECTIVOROUS BATS . . . . . Scott D. Grindal and R. Mark Brigham 996

EFFECTS OF INTERINDIVIDUAL VARIATION IN ECHOLOCATION CALLS ON IDENTIFICATION OF BIG BROWN AND SILVER-HAIRED BATS . . . . . Burr J. Betts 1003

EFFECTS OF POPULATION DENSITY ON HORN DEVELOPMENT IN BIGHORN RAMS . . . . . Jon T. Jorgenson, Marco Festa-Bianchet, and William D. Wishart 1011

LONG-TERM RANGE FIDELITY IN ROCKY MOUNTAIN ELK . . . . . Fred G. Van Dyke, Wendi C. Klein, and Shawn T. Stewart 1020

JUVENILE SURVIVAL AND POPULATION REGULATION OF THE JACKSON ELK HERD . . . . . Bruce L. Smith and Stanley H. Anderson 1036

ALTERNATIVE APPROACHES TO AERIAL CENSUSING OF ELK . . . . . L. Lee Eberhardt, Robert A. Garrott, Patrick J. White, and Peter J. Gogan 1046

DEVELOPMENT AND EVALUATION OF SIGHTABILITY MODELS FOR SUMMER ELK SURVEYS . . . . . Charles R. Anderson, Jr., David S. Moody, Bruce L. Smith, Frederick G. Lindzey, and Robert P. Lanka 1055

DETECTION OF EARLY PREGNANCY IN CARIBOU: EVIDENCE FOR EMBRYONIC MORTALITY . . . . . Don E. Russell, Karen L. Gerhart, Robert G. White, and Debbie van de Wetering 1066

PREDICTORS OF WHITE-TAILED DEER GRAZING INTENSITY IN FRAGMENTED DECIDUOUS FORESTS . . . . . David J. Augustine and Peter A. Jordan 1076

FALLOW DEER AND WILD BOAR PELLET GROUP DISAPPEARANCE IN A MEDITERRANEAN AREA . . . . . Giovanna Massei, Philip Bacon, and Peter V. Genov 1086

EFFECTIVENESS OF WILDLIFE WARNING REFLECTORS IN REDUCING DEER–VEHICLE COLLISIONS: A BEHAVIORAL STUDY . . . . . Marianne Ujvári, Hans J. Baagøe, and Aksel B. Madsen 1094

SETTLEMENT RATE OF LEAD SHOT IN TUNDRA WETLANDS . . . . . Paul L. Flint 1099

EFFECT OF LEAD POISONING ON SPECTACLED EIDER SURVIVAL RATES . . . . . James B. Grand, Paul L. Flint, Margaret R. Petersen, and Christine L. Moran 1103

A MODEL OF NORTHERN PINTAIL PRODUCTIVITY AND POPULATION GROWTH RATE . . . . . Paul L. Flint, James B. Grand, and Robert F. Rockwell 1110

ACTIVITY BUDGET OF WHITE-FACED WHISTLING-DUCKS DURING WINTER AND SPRING IN NORTHERN KWAZULU–NATAL, SOUTH AFRICA . . . . . Scott A. Petrie and Valerie Petrie 1119

DABBLING DUCK BEHAVIOR AND AIRCRAFT ACTIVITY IN COASTAL NORTH CAROLINA . . . . . John T. Conomy, Jaime A. Collazo, James A. Dubovsky, and W. James Fleming 1127

DO BLACK DUCKS AND WOOD DUCKS HABITUATE TO AIRCRAFT DISTURBANCE? . . . . . John T. Conomy, James A. Dubovsky, Jaime A. Collazo, and W. James Fleming 1135

EFFECTS OF HUMAN DISTURBANCE ON SUCCESS OF ARTIFICIAL DUCK NESTS . . . . . Rob Olson and Frank C. Rohwer 1142

TRUE METABOLIZABLE ENERGY ESTIMATES OF CANADA GOOSE FOODS . . . . . Mark J. Petrie, Ronald D. Drobney, and David A. Graber 1147

CORRIGENDA 1153

Book Reviews 1154

Journal News 1163

NUMBER 4—OCTOBER

UNGULATE EFFECTS ON THE FUNCTIONAL SPECIES COMPOSITION OF PLANT COMMUNITIES: HERBIVORE SELECTIVITY AND PLANT TOLERANCE—*Invited Paper* . . . . . David J. Augustine and Samuel J. McNaughton 1165

REPRODUCTIVE PERFORMANCE OF FEMALE ALASKAN CARIBOU . . . . . Layne G. Adams and Bruce W. Dale 1184

SILVICULTURAL USE OF HERBICIDE IN SUB-BOREAL SPRUCE FOREST: IMPLICATIONS FOR SMALL MAMMAL POPULATION DYNAMICS . . . . . Thomas P. Sullivan, Christopher Nowotny, R. A. Lautenschlager, and Robert G. Wagner 1196

RESPONSE OF SMALL MAMMALS TO CLEARCUTTING, BURNING, AND GLYPHOSATE APPLICATION IN THE OREGON COAST RANGE . . . . . Elizabeth C. Cole, William C. McComb, Michael Newton, J. P. Leeming, and Carol L. Chambers 1207

COMPARISON OF PROPOSED SURVEY PROCEDURES FOR DETECTION OF FOREST CARNIVORES . . . . . Kerry R. Foresman and D. E. Pearson 1217

EVALUATION OF A MARK–RESIGHTING TECHNIQUE FOR WOODLAND CARIBOU IN NEWFOUNDLAND . . . . . Shane P. Mahoney, John A. Virgl, David W. Fong, Andrea M. MacCharles, and Michael McGrath 1227

INTERPRETING CARNIVORE SCENT-STATION SURVEYS . . . . . Glen A. Sargeant, Douglas H. Johnson, and William E. Berg 1235

EFFECTS OF JET AIRCRAFT ON MOUNTAIN SHEEP . . . . . Paul R. Krausman, Mark C. Wallace, Charles L. Hayes, and Donald W. DeYoung 1246

ELK HABITAT SELECTION ON THE CLEARWATER NATIONAL FOREST, IDAHO . . . . . James W. Unsworth, Lonn Kuck, Edward O. Garton, and Bart R. Butterfield 1255

EVALUATING COUGAR TRANSLOCATION IN NEW MEXICO . . . . . Toni K. Ruth, Kenneth A. Logan, Linda L. Sweanor, Maurice G. Hornocker, and Larry J. Temple 1264

AGING BISON BY THE INCREMENTAL CEMENTUM GROWTH LAYERS IN TEETH . . . . . Steven A. Moffitt 1276

ANALYSIS OF ERROR FROM CEMENTUM-ANNULI AGE ESTIMATES OF KNOWN-AGE PENNSYLVANIA BLACK BEARS . . . . . Wendi A. Harshyne, Duane R. Diefenbach, Gary L. Alt, and Gary M. Matson 1281

MODELING AND EVALUATION OF EAR TAG LOSS IN BLACK BEARS . . . . . Duane R. Diefenbach and Gary L. Alt 1292

CAUSES AND RATES OF MORTALITY OF SWIFT FOXES IN WESTERN KANSAS . . . . . Marsha A. Sovada, Christiane C. Roy, J. B. Bright, and James R. Gillis 1300

INDICES FOR PREDICTING TOTAL BODY FAT IN RED FOXES FROM AUSTRALIA . . . . . Roy K. Winstanley, Glen Saunders, and William A. Buttemer 1307

CHARACTERISTICS OF WOLVERINE REPRODUCTIVE DEN SITES . . . . . Audrey J. Magoun and Jeff Copeland 1313

CHINESE PRIVET AND THE FEEDING ECOLOGY OF WHITE-TAILED DEER: THE ROLE OF AN EXOTIC PLANT . . . Karl A. K. Stromayer, Robert J. Warren, A. Sydney Johnson, Philip E. Hale, Carolyn L. Rogers, and Christopher L. Tucker 1321

SPATIAL MOBILITY OF BREEDING FEMALE WHITE-TAILED DEER IN A LOW-DENSITY POPULATION . . . . . Ronald F. Labisky and Duane E. Fritzen 1329

SURVIVAL AND CAUSE-SPECIFIC MORTALITY RATES OF ADULT WHITE-TAILED DEER IN NEW BRUNSWICK . . . . . Heather A. Whitlaw, Warren B. Ballard, Dwayne L. Sabine, Steven J. Young, Roger A. Jenkins, and Graham J. Forbes 1335

USE OF VOCALIZATIONS TO ESTIMATE POPULATION SIZE OF ROE DEER . . . . . David Reby, A. J. Mark Hewison, Bruno Cargnelutti, Jean-Marc Angibault, and Jean-Paul Vincent 1342

INFLUENCE OF FOREST STRUCTURE AND DISEASES ON NEST-SITE SELECTION BY RED-BREASTED NUTHATCHES . . . . . Christoph Steeger and Christine L. Hitchcock 1349

DENSITY AND FORAGING ECOLOGY OF WOODPECKERS FOLLOWING A STAND-REPLACEMENT FIRE . . . . . Edward C. Murphy and William A. Lehnhausen 1359

NEST-SITE CHARACTERIZATION AND REPRODUCTIVE SUCCESS OF MISSISSIPPI KITES IN THE MISSISSIPPI RIVER FLOODPLAINS . . . . . Jeff D. Barber, Ernie P. Wiggers, and Rochelle B. Renken 1373

DOES SURVEY METHOD BIAS THE DESCRIPTION OF NORTHERN GOSHAWK NEST-SITE STRUCTURE? . . . . . Sonya K. Daw, Stephen DeStefano, and Robert J. Steidl 1379

RED-SHOULDERED HAWK BROADCAST SURVEYS: FACTORS AFFECTING DETECTION OF RESPONSES AND POPULATION TRENDS . . . . . Mary Anne McLeod and David E. Andersen 1385

CHARACTERISTICS OF FORESTS AT SPOTTED OWL NEST SITES IN THE PACIFIC NORTHWEST . . . . . Katherine T. Hershey, E. Charles Meslow, and Fred L. Ramsey 1398

SHORT-TERM EFFECTS OF UNDERSTORY AND OVERSTORY MANAGEMENT ON BREEDING BIRDS IN ARKANSAS OAK–HICKORY FORESTS . . . . . Paul G. Rodewald and Kimberly G. Smith 1411

BIRD COMMUNITIES OF EARLY-SUCCESSIONAL BURNED AND LOGGED FOREST . . . . . Lisa A. Schulte and Gerald J. Niemi 1418

EFFECT OF BORDER-EDGE CUTS ON BIRDS AT WOODLOT EDGES IN SOUTHWESTERN PENNSYLVANIA . . . . . Kathleen K. Fleming and William M. Giuliano 1430

PREDATION OF ARTIFICIAL NESTS IN HARDWOOD FRAGMENTS ENCLOSED BY PINE AND AGRICULTURAL HABITATS . . . . . Robert A. Sargent, John C. Kilgo, Brian R. Chapman, and Karl V. Miller 1438

POPULATION DEMOGRAPHICS OF TWO LOCAL SOUTH CAROLINA MOURNING DOVE POPULATIONS . . . . . Donald P. McGowan, Jr. and David L. Otis 1443

EFFECTS OF IMPLANTED RADIOTRANSMITTERS ON CAPTIVE MOURNING DOVES . . . . . John H. Schulz, Alex J. Bermudez, James L. Tomlinson, Jeffre D. Firman, and Zhuoqiong He 1451

HAND-REARING CORVIDS FOR REINTRODUCTION: IMPORTANCE OF FEEDING REGIME, NESTLING GROWTH AND DOMINANCE . . . . . Kathryn D. Whitmore and John M. Marzluff 1460

BREEDING SEASON BIRD USE OF RECENTLY RESTORED VERSUS NATURAL WETLANDS IN NEW YORK . . . . . Stephen C. Brown and Charles R. Smith 1480

RELATION BETWEEN WEATHER AND SURVIVAL OF WILD TURKEY NESTS . . . . . Steven D. Roberts and William F. Porter 1492

INFLUENCE OF TEMPERATURE AND PRECIPITATION ON SURVIVAL OF WILD TURKEY POULTS . . . . . Steven D. Roberts and William F. Porter 1499

OPERATIVE TEMPERATURE REDUCES HABITAT SPACE FOR NORTHERN BOBWHITES . . . . . N. David Forrester, Fred S. Guthery, Steven D. Kopp, and Will E. Cohen 1506

SURVIVAL OF FEMALE NORTHERN PINTAILS WINTERING IN SOUTHWESTERN LOUISIANA . . . . . Robert R. Cox, Jr., Alan D. Afton, and Richard M. Pace, III 1512

MIGRATION PATTERNS OF BLACK BRANT IN BOUNDARY BAY, BRITISH COLUMBIA . . . . . Eric T. Reed, Evan G. Cooch, Fred Cooke, and R. Ian Goudie 1522

DIET SELECTIVITY OF GADWALLS WINTERING IN ALABAMA . . . . . S. Keith McKnight and Gary R. Hepp 1533

EFFECT OF RESTRICTIVE HARVEST REGULATIONS ON SURVIVAL AND RECOVERY RATES OF AMERICAN BLACK DUCKS . . . . . Charles M. Francis, John R. Sauer, and Jerome R. Serie 1544

ANTHRAQUINONE FORMULATION (FLIGHT CONTROL™) SHOWS PROMISE AS AVIAN FEEDING REPELLENT . . . . . Richard A. Dolbeer, Thomas W. Seamans, Bradley F. Blackwell, and Jerrold L. Belant 1558

EFFECTS OF FOLIAR INSECTICIDES ON SURVIVAL OF NORTHERN BOBWHITE QUAIL CHICKS . . . . . William E. Palmer, K. Marc Puckett, John R. Anderson, Jr., and Peter T. Bromley 1565

EVALUATION OF TRANSMITTER ATTACHMENT TECHNIQUES ON GROWTH OF WILD TURKEY POULTS . . . . . Michael W. Hubbard, Ling-Ling C. Tsao, Erwin E. Klaas, Mark Kaiser, and Dewaine H. Jackson 1574

CORRIGENDUM 1579

Book Reviews 1580

INDEX 1589

BOOK REVIEWS (Jan, Apr, Jul, Oct) 1629